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1955, Sep/Oct, p. 569ff.

DESCRIPTORS: *Optic nerve, Pathology, *Nicotine,
*Alcohols, *Poisoning.

(Biological Sciences--Toxicology, TT, v. 9, no. 1)

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II. Berard, J.
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Detroit, Mich.

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BLA 59-15540

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SLA 59-16141

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NIH Tr 910

SLA 1A: 0384

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niques to the Characterisation of Paper Sur-
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GERMAN, par, Des Papier, Sep 1955, pp 437-439.

SLA Tr 57-1728

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Development of a New Measuring Technique. 2. Application of the Measurements to Celluloses of High Viscosity and Unbleached Pulps, by G. Jayne, J. Wells. GERMAN, per, Kolloid Zeitschrift, Vol. 107, No. 3, 1944, pp 163-180, Vol. 108, No. 1, 1944, pp 20-30. CSR.CO/

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A Contribution to the Kinetics and the
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GHEFMAN, per, Holzforschung, Vol IX, No 2, 1955,
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S.L.A. Tr 57-113

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Contribution to the Theory and Practice of Rosin
Sizing of Paper. III. Degree of Hydration of
Rosin Size Precipitates, by G. Jayne, H. Arledter,
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ELA 58-294

Sci

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Order from SLA \$1.60

61-18266

Trans. of Das Papier (West Germany) 1959, v. 13,
no. 9/10, p. 190-200.

DESCRIPTORS: Organic materials, Inorganic substances, Water, Chemical analysis, *Paper industry, Precipitation, Separation, Production, Cellulose chemistry, *Resins, Determination, Wood pulp machines.

I. Title: Rosin
I. Jayme, G.
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1945.0

(Materials--Paper, TT, v. 7, no. 5)

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SLA 57-3244

Sci

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Acid Rich Size (Hagoid), by G. Jayne, W. Demmig.

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pp 278-283.

SLA 61-18268

Sci
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Vol VII, No 2

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Hechler, 22 pp.

GERMAN, per, Woch Papier Abr, Vol LXXXIV, No 11-12,
Jun 1956, pp 427-237.

SLA Tr 57-831

Sci - Chem

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ESTABLISHING THE FLOCCULATION OF FIBRE
SUSPENSIONS, ITS INFLUENCE ON SHEET STRUC-
TURE, AND VARIATIONS CAUSED BY MANNO-
GALACTAN. Aug 63 [20p] 14rcfs
Order from SLA \$1.60

TT-63-20827

Trans. of das Papier (West Germany) 1962, v. 16,
no. 11, p. 664-670. (Abstract available)

DESCRIPTORS: *Wood pulp, Sheets, *Fibers, Chemical
precipitation, Mechanical properties, Additives,
Material separation, Microstructure.

Laboratory investigations were conducted to study
flocculation in fibre suspensions prepared from five
different types of bleached pulp as well as from mixtures
of spruce and straw pulp. The results clearly indicated
a linear increase of the degree of non-uniformity (WZ)
(Materials--Wood, TT, v. 11, no. 4) (over)

TT-63-20827

1. Title: Mannogalactan
- I. Jayne, G.
- II. Murty, V. L.

Office of Technical Services

63-10060

Jayme, G. and Fengel, D.

ELECTRON MICROSCOPE PHOTOGRAPHS OF THE
SURFACES OF SEMI-CHEMICAL SOFT WOOD PULP
FIBRES. Nov 62, 7p. (figs. omitted) 13 refs.
Order from SLA \$1.10 63-10060

I. Jayme, G.
II. Fengel, D.

Trans. of das Papier (West Germany) 1962, v. 16, no. 4,
p. 125-130.
Another trans. is available from SLA \$1.10 as
62-20469 [1962] 10p.

DESCRIPTORS: *Wood pulp fibers, Surfaces, Photo-
graphic analysis, Electron microscopes, *Cellulose
chemistry.

In contrast with pulp fibres the electron microscope
pictures taken of replicas of unbleached softwood semi-
chemical pulp fibres show surfaces which are more or
less extensively blurred by deposited lignin and
hemicelluloses. The swelling of the fibre walls during
(Materials--Wood, TT, v. 9, no. 9) (over)

Office of Technical Services

Jayne, G. and Fengel, D.
ELECTRON OPTICAL STUDIES OF THE FINE
STRUCTURE OF SOFTWOOD CELLS. Jan 63 [7]p.
(figs. tables omitted) 33 refs.
Order from SLA \$1.10 63-14470

Trans. of the Papler (West Germany) 1962, v. 16,
no. 10a, p. 519-524.

DESCRIPTORS: *Electron microscopes, Wood,
*Wood pulp, *Electron optics.

(Materials--Wood, TT, v. 10, no. 4)

63-14470

I. Jayne, G.
H. Fengel, D.

Office of Technical Services

Electron Micrographs of the Surfaces of Unbleached
Spruce Sulphate and Sulphite Pulps, by G. Jayne, H.
Gunther, 9 pp.

GERMAN, per, Holz Roh- u Werkstoff, Vol XIII,
Jun 1955, pp 212-215.

SLA Tr 2367

Sci - Biol

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Influence of the Tension-wood Fraction on the
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pp 411-417.

S.L.A.Z² Tr No 291/1955

Sci - Chemistry
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Investigations Into the Fine Structure of
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G. Jayme, F. Dietrich.

GERMAN, per, Holz Als Roh- und Werkstoff,
Vol XVII, 1959, pp 226-230.

CSIRO 4908

Sci - Biol
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Jayme, G. and Jerratsch, H. J.
THE K₁ METHOD, A MODIFIED KAPPA NUMBER
DETERMINATION FOR SEMI-CHEMICAL PULPS OF
MORE THAN 70% YIELD. Mar 61, 9p. (4 figs.
omitted) 6 refs.
Order from SLA \$1.10 61-14924

Trans. of das Papier (West Germany) 1960, v. 14,
no. 12, p. 718-723.

DESCRIPTORS: *Wood pulp, *Potassium,
*Permanganates, Oxidation, Determination.

(Chemistry--Analytical, TT, v. 6, no. 1)

61-14924

I. Jayme, G.
II. Jerratsch, H. J.

Office of Technical Services

Making of High Yield Spruce Pulp by Rapid
Magnesium Bisulphite Cooking, by G.
Jayme, L. Broschinsky, W. Matzke.
GERMAN, per, Papier, Vol. 18, No. 7, 1964,
pp 308-315
NRC Ref: C-5723

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Sci -
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337-430

Making of High Yield Spruce Pulp by Rapid
Magnesia Bisulphite Cooking. 2. Vapour
Phase Cooking by Direct Heating, by G.
Jayme, W. Matzke.
GERMAN, per Pap Fabr. Vol. 92, No. 11/12,
1964, pp 311-314
NRC Ref: C-5724

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Sci -
Aug 67

337-431

Jayne, George; Gasche, Urs; and Duback, Max.
MECHANISMS IN ACID SULPHITE COOKING WITH
CALCIUM OR SODA BASE. [1962] [15]p. 22 refs.
Order from SLA \$1.60 62-18917

Trans. of das Papier (West Germany) 1961, v. 15,
p. 553-546.

DESCRIPTORS: *Wood pulp, *Sulfites, Processing,
Mechanical properties, *Paper industry, Manufacturing
methods, Chemical analysis.

(Materials--Wood, TI, v. 9, no. 7)

62-18917

I. Jayne, G.
II. Gasche, U.
III. Duback, M.

230496

Office of Technical Services

A Method for the Production of Fluorescent
Stamp Paper, by G. Jayme, G. Bauer. 21p.
GERMAN, Patent 1 181 537.
ILA TT-66-10549

G. Jayme

Sci-MAM
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New Results in Connection With the Identification of
Wet Strength Papers by a Simple Color Reaction, by
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GERMAN, per, Das Papier, Vol IX, No 3-4, Feb 1955,
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SLA Tr 2469

Sci - Chem

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Observation of Hornification in Cellulose Fiber
Structures With the Aid of Electron Microscope,
by G. Jayne, G. Hunger, 17 pp.

GERMAN, per, Monatsh Chem, Vol LXXXVII, No 1,
1956, pp 8-23.

SLA Tr 57-808

Sci - Chemistry

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Jayme, G. and Bergmann, W.
OXYGEN-INSENSITIVE ALKALINE CELLULOSE
SOLUTIONS (Über Sauerstoffunempfindliche
Alkalische Cellulose-Lösungen) tr. by H. A. G. Nathan
1961, 8p. 4 refs. NRCC Technical Trans. 989.
Order from NRCC \$0.50 NRCC C-3841

Trans. of das Papier (West Germany) 1956, v. 10,
no. 5/6, p. 88-90.

DESCRIPTORS: *Cellulose, Cellulose chemistry,
Chemistry, Organic solvents, Viscosity, Measure-
ment, Oxygen, Chemical reactions.

In continuing the investigations of the sodium-ferri-
tartaric acid complex, $[(C_4H_3O_6)_3Fe]Na_6$, dissolved
in sodium hydroxide solution, i.e. the new solvent
recently found by Jayme, the oxygen sensitivity of the
cellulose solutions thus obtained was studied. Via-
(Materials--Paper, TT, v. 8, no. 7) (over)

62-12448

- I. Jayme, G.
- II. Bergmann, W.
- III. NRCC TT-989
- IV. NRCC C-3841
- V. National Research Council
of Canada

Office of Technical Services

Paper Chromatography of Sugar Mixtures on
Glass Fibre Paper, by G. Jaynes and H.
Knoke, 5 pp.

CHINA, per, Angus Chen, Vol LXVIII, No 7,
1975, p 243.

SLA Tr 57-1729

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Jul 58

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THE POLYMERIZATION OF CELLULOSE
and of Holocelluloses and Hemicelluloses Pre-
pared from Them, by G. Jayne, G. Hahn, 3 pp.

GERMAN, per, Holzforschung, Vol XIV, No 2,
1960, pp 52-55.

CSIRO Tr 5142

Sci - Biol
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Production of Furfural and Low-Pentosan Pulp From
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GERMAN, per, Z Angew Chem, No 5/6, 1947, pp 150.

SLA 2835

Sci
May 58

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Production Of Tannin and Pulp From Young Black
Locust Wood by G. Jayne and H. Sagaler.

GERMAN, per, Das Papier, Vol XI, No 17/18, 1957,
pp 396-398.

CEIRO Tr 3872

Oct. 62

Properties of Spruce Sulphate Pulp in a State of
Biological Preservations, by G. Jayne, L. Kohler,
W. L. Haas, 19 pp.

GERMAN, per, Das Papier, Vol X, Nov, Dec 1956,
pp 405, 540.

SLA Tr 57-675

Sci - Biol

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Sep 57

Properties of Spruce Sulphate Pulp in a
State of Biological Preservation, by G. Jayne,
L. Kohler, W. L. Hans, 10 pp.

GERMAN, per, Das Papier, Vol X, No 23/24,
1956, pp 540-545.

SIA 59-10157

Sci Chem
Jun 59
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Jayne, G. and Hunger, G.,
PULP AND PAPER AS VIEWED STEREOSCOPICALLY
BY THE ELECTRON MICROSCOPE. [1961] 4p.
(16 figs. omitted)
Order from SLA \$1. 10

62-10276

Trans. of das Papler (West Germany) 1960, v. 14,
no. 10a, p. 550-553.

DESCRIPTORS: Cellulose, *Wood pulp, *Paper,
Electron microscopes, Stereoscopes.

An attempt is made in this lecture to show how our
knowledge of the fine structure of cellulose pulps and
their structural modification under various influences
may be broadened and deepened by stereoscopic ob-
servation. This was done by showing and comparing
ordinary electron-micrographs with stereo pairs.
(Author)
(Materials--Paper, TT, v. 7, no. 9)

62-10276

I. Jayne, G.
II. Hunger, G.

206016

Office of Technical Services

phenomena in Swelling and Dissolution of
Fibrous Plant Cells in New Solvents, by
G. Jayne, M. Harders-Steinhäuser, 10 pp.

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CHANGES IN COLLOIDAL-CHEMICAL PROPERTIES
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Order from SLA mi\$1.80, ph\$1.80 61-10769

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(Materials--Wood, TT, v. 5, no. 9)

61-10769

1. Wood pulp fibers--
Physical properties
2. Ultrasonic radiation--
Physical effects

- I. Jayme, G.
- II. Crönert, H.
- III. Neuhaus, W.

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Order from SLA ml\$1.80, ph\$1.80 61-10742

Trans. of das Papier (West Germany) 1960, v. 14,
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A discussion is presented of the influence of ultrasound
and mechanical high-frequency treatment on the
morphologically determined reactivity of rayon pulps.
(See also 61-10740)

(Materials--Wood, TT, v. 5, no. 10)

61-10742

1. Wood pulp fibers--Physical
properties
2. Ultrasonic radiation--
Physical effects
3. Stirrers--Design

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The machinery used in high-frequency treatment is described. (See also 60-18503)

(Materials--Wood, TT, v. 5, no. 10)

61-10740

1. Wood pulp fibers--Physical properties
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3. Stirrers--Design

- I. Jayme, G.
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Tests were made to determine the retention on the
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(Materials--Paper, TT, v. 5, no. 11)

61-10903

1. Paper industry--Equipment
2. Chemical waste--
Analysis
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THE RETENTION OF STARCH, CMC AND ALGINATE
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DESCRIPTORS: *Paper industry, Chemical waste,
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For abstract see Technical Translations 5: 631, 1961.

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DESCRIPTORS: Paper industry, Chemical waste,
Cellulose chemistry.

For abstract see Technical Translations 5: 631, 1961.

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